

Template name	Silica template						Imprinted polymer ^b				
	% C	ΔC (%)	% N	ΔN (%)	D_s^a ($\mu\text{mol}/\text{m}^2$)		% C	% N	S^c (m^2/g)	V_p^c (mL/g)	d_p^c (nm)
					ΔC	ΔN					
APS-Si	4.28	4.11	1.65	1.65	3.85	4.00	-	-	-	-	-
BOC-Gly-Si	17.04	11.49	3.28	1.63	4.88	4.00	53.2	0.20	132	0.24	4.0
H-Gly-Si	6.24	0.69	2.21	0.56	0.84	1.17	51.5	0.24	145	0.41	7.4
FMOC-Phe-Gly-Si	16.44	10.25	2.93	0.72	1.17	1.81	59.3	0.26	166	0.27	4.5
H-Phe-Gly-Si	11.91	5.67	2.97	0.76	1.63	1.69	58.5	0.39	204	0.58	5.4
FMOC-Phe-Si	16.02	10.47	1.78	0.13	1.20	0.27	56.3	0.23	149	0.58	7.4
H-Phe-Si	9.94	4.39	1.91	0.26	1.23	0.54	55.3	0.15	200	0.53	8.2
FMOC-Phe//Si	-	-	-	-	-	-	56.7	0.80	205	0.37	5.1

Table 1 Characterization of the modified silica particles and the imprinted polymer beads by microanalysis and nitrogen sorption isotherms. Area density (D_s) of immobilised ligand was calculated based on the change in carbon (ΔC) or nitrogen (ΔN) content versus the preceding step. For example for ΔN : $D_s = m_N / (M_N S)$, where $m_N = \Delta N\% / (100 - \Delta N\% M_w / M_N)$, M_w =molecular weight of the coupled ligand, M_N =weight of nitrogen per mole of coupled ligand and S = surface area of the silica support ($S=350\text{m}^2/\text{g}$).

Solid phase synthesis

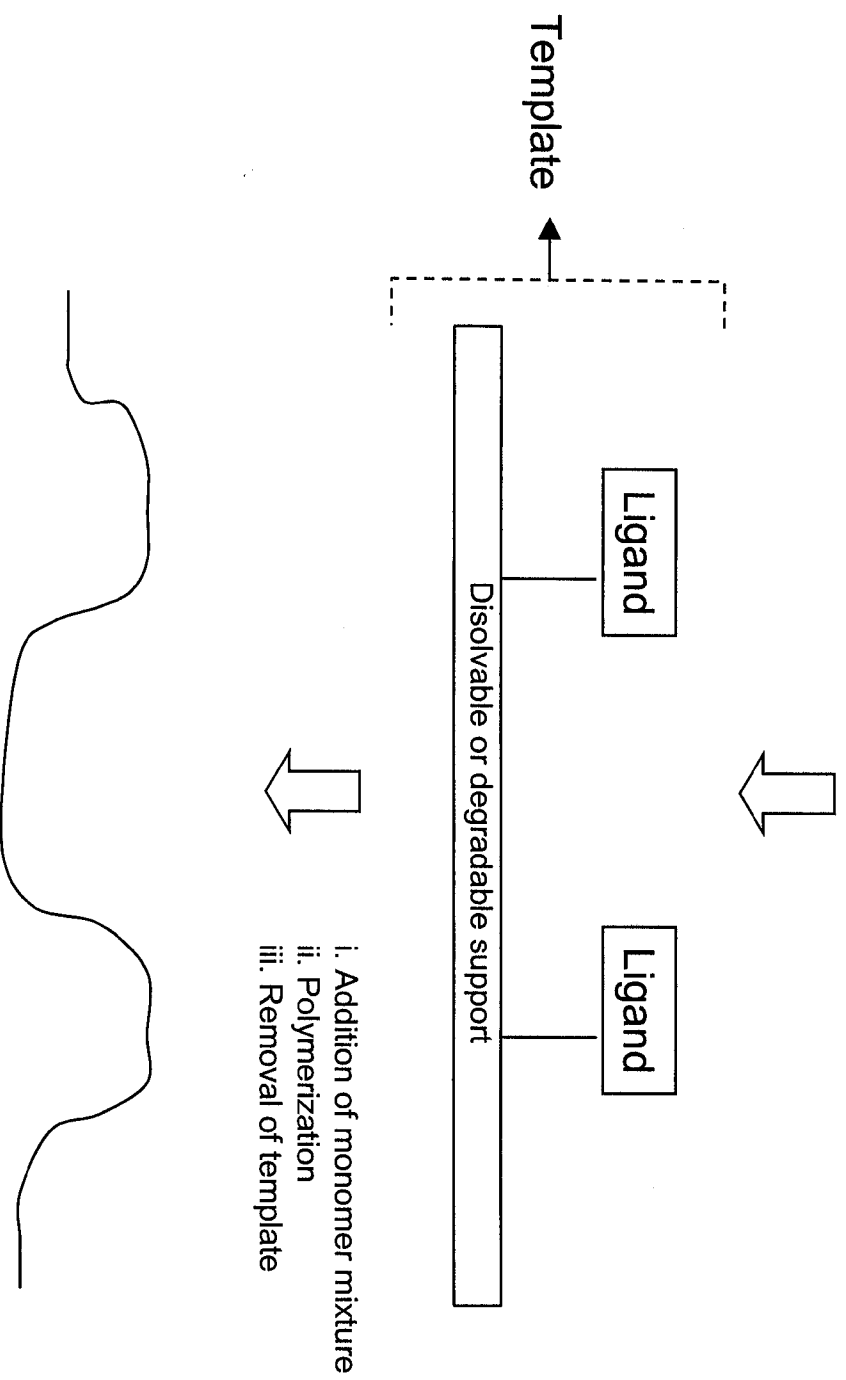


FIG. 1

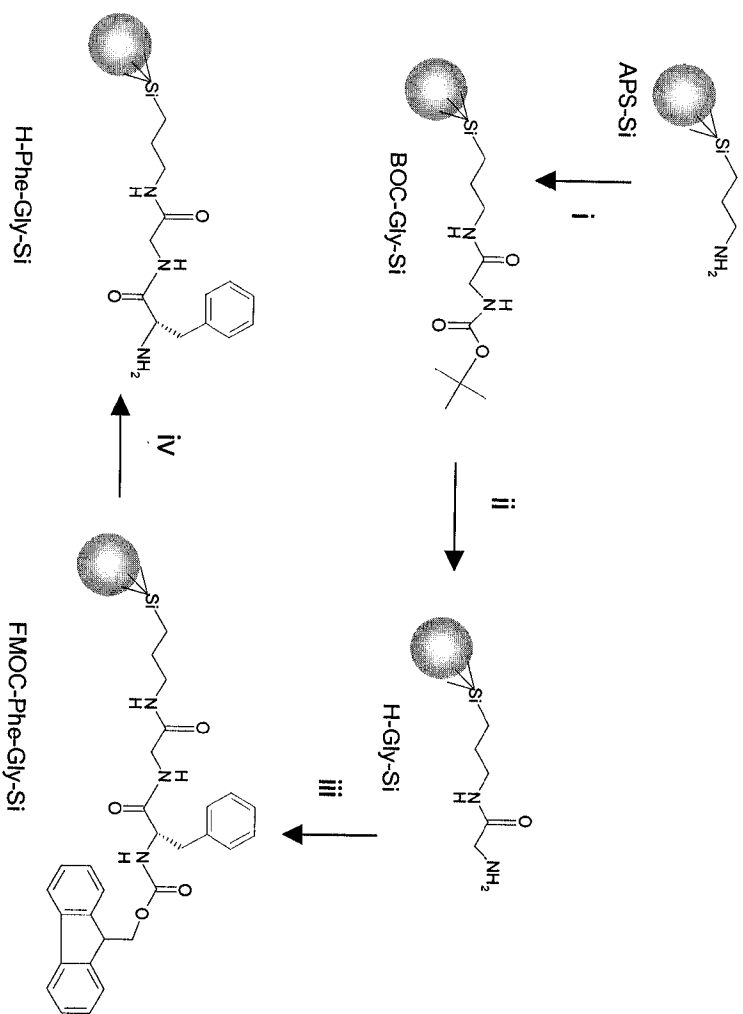


FIG. 2

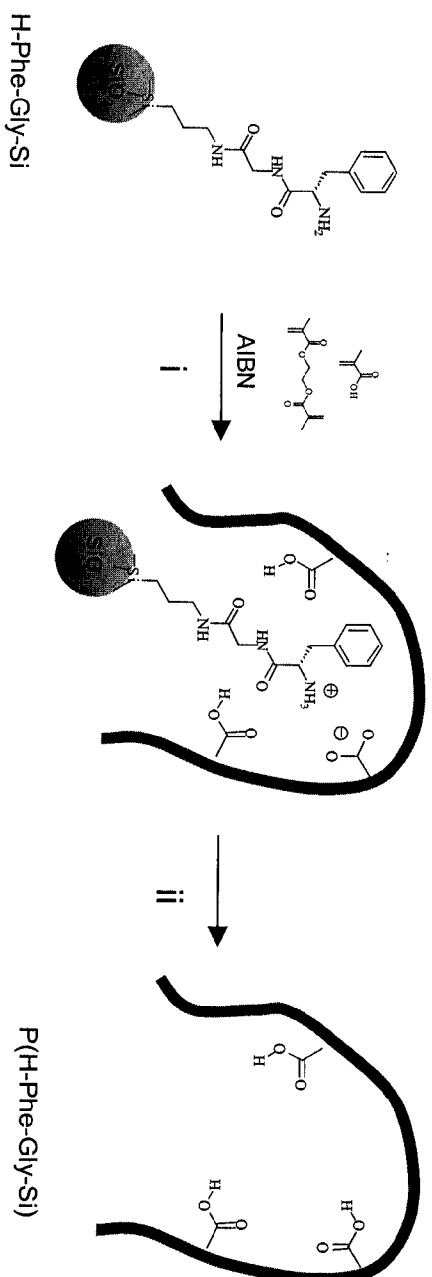


FIG. 3

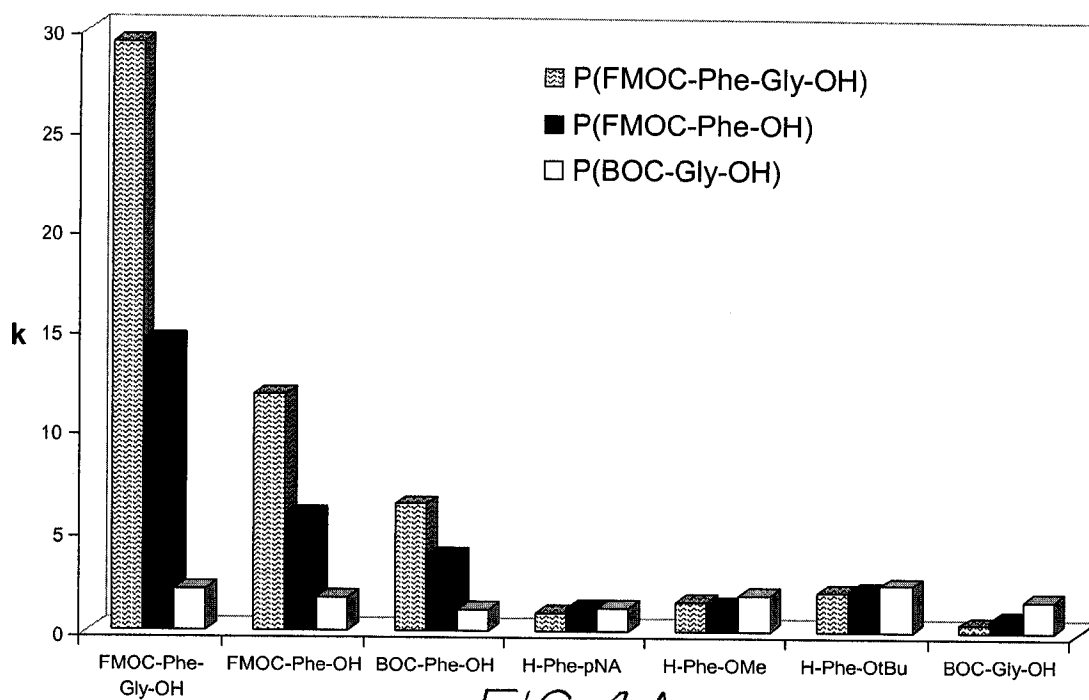


FIG. 4A

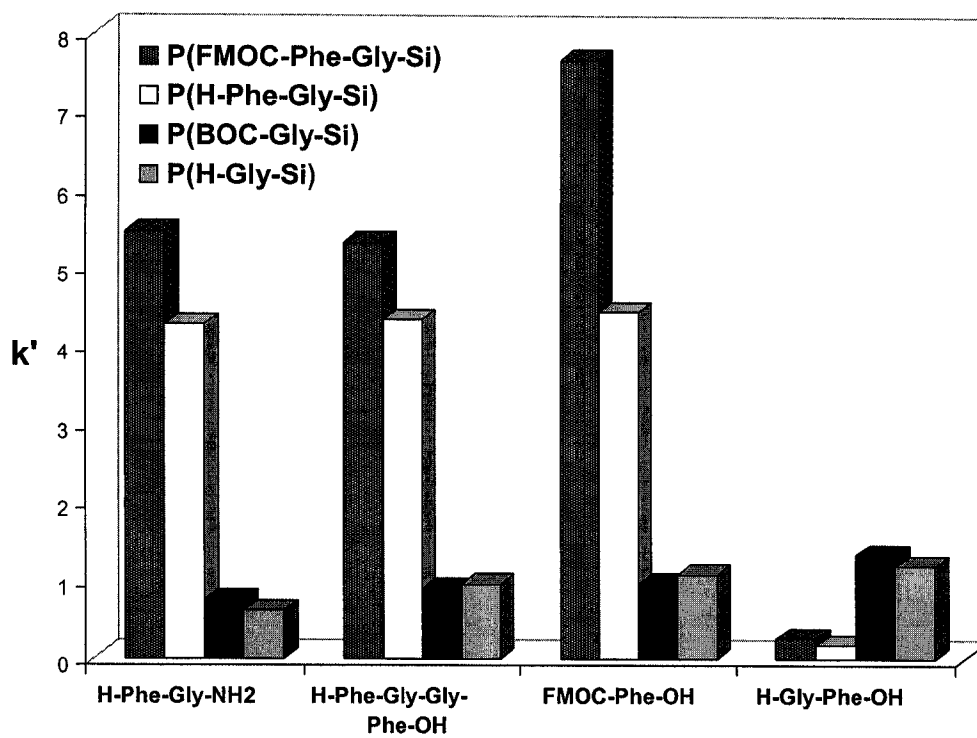


FIG. 4B

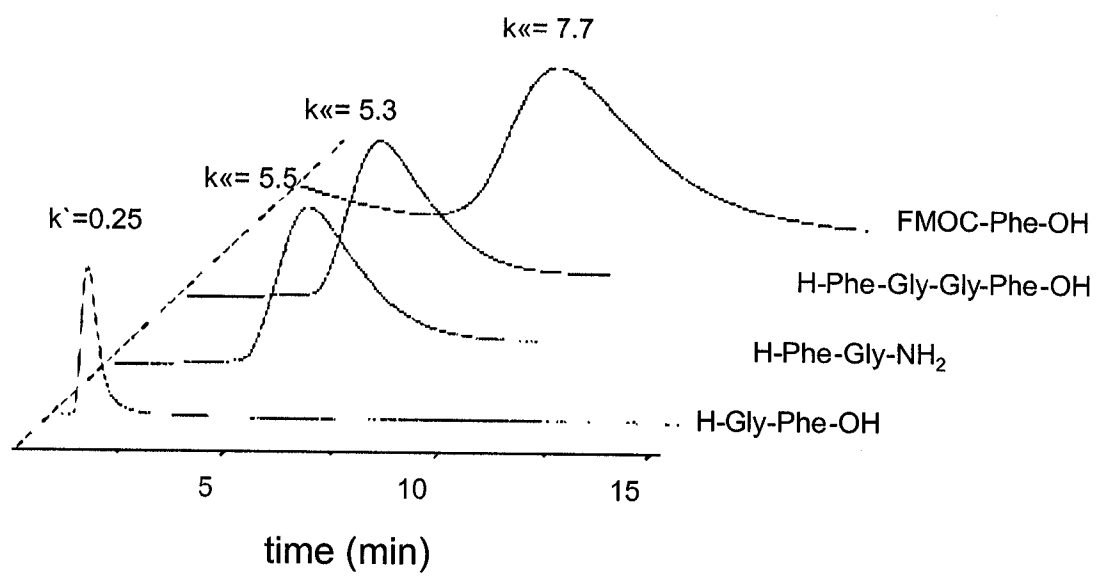


FIG. 4C